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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/977,713	10/12/2001	Patrick M. Sewall	RIDG101	3294
29683	7590 11/05/2003		EXAMINER	
	ON & SMITH, LLP		COBY, FRANTZ	
4 RESEARCH DRIVE SHELTON, CT 06484-6212	•	ART UNIT	PAPER NUMBER	
* . *			2171	1
		•	DATE MAILED: 11/05/2003	ラ

Please find below and/or attached an Office communication concerning this application or proceeding.

·		GR4		
	Application No.	Applicant(s)		
	09/977,713	SEWALL ET AL.		
Office Action Summary	Examiner	Art Unit		
	Frantz Coby	2171		
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu. - Any reply received by the Office later than three months after the maility earned patent term adjustment. See 37 CFR 1.704(b). Status	I. 136(a). In no event, however, may a sply within the statutory minimum of third will apply and will expire SIX (6) MOI to, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
1)⊠ Responsive to communication(s) filed on <u>12</u>	? October 2001 .			
2a) This action is FINAL . 2b) ⊠ T	This action is non-final.			
Since this application is in condition for allow closed in accordance with the practice unde Disposition of Claims				
4) Claim(s) 1-53 is/are pending in the application	on.			
4a) Of the above claim(s) is/are withdra	awn from consideration.			
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-53</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and	or election requirement.			
Application Papers		•		
9) The specification is objected to by the Examin				
10) The drawing(s) filed on is/are: a) acc	-			
Applicant may not request that any objection to t	= ' '	• • •		
11) The proposed drawing correction filed on		disapproved by the Examiner.		
If approved, corrected drawings are required in r 12) The oath or declaration is objected to by the E	• •			
	-xarriirier.			
Priority under 35 U.S.C. §§ 119 and 120	on milariku undan 25 H.C.C.	S 440(a) (d) as (5)		
13) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	gn priority under 35 0.5.C.	9 119(a)-(d) or (i).		
,	nte have been received			
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 				
Copies of the certified copies of the priority documents 3. Copies of the certified copies of the priority documents.				
application from the International B * See the attached detailed Office action for a lis	Bureau (PCT Rule 17.2(a)).	_		
14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C.	§ 119(e) (to a provisional application).		
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for domes	· ·			
Attachment(s)	· -			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) D Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) .		

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This is in response to application filed on October 12, 2001 and preliminary amendment filed on January 16, 2002 in which claims 1-53 are presented for examination.

Status of Claims

Claims 1-53 are pending.

/Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Middleton WO 00/70770 in view of Chambers IV U.S. Patent no. 5,426,779.

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As per claim 1, Middleton discloses "a compressed data structure" by providing a Compression/Decompression method (See Middleton Title). In particular, Middleton discloses the claimed limitations of "a plurality of code strings" as control codes (See Middleton Figure 1, component 12; top of page 11) and "a plurality of look-up strings" as look-up table means (See Middleton Figure 1, component 10; bottom of page 10, page 6).

It is noted, however, Middleton did not specifically disclose "an index identifying a particular code string to be retrieved and an instruction identifying an operation to be performed on the retrieved code string" as recited in the instant claim 1. On the other hand, Chambers, IV discloses a data compression/decompression system including a lookup table indexable by data pairs from the history buffer wherein an encoding scheme may by employed (See Chambers IV Figures 7, 10 and corresponding text; Col. 2, line 62-Col. 3, line 7).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modified the system of Middleton and Chambers IV because they are both directed to method and apparatus for data compression/decompression and are both from the same field of endeavor. One of ordinary skill in the art at the time of the invention would have been motivated to do so because the indexing teachings of Chambers IV will permit the lookup table of Middleton to search and retrieve code strings more efficiently.

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As per claim 2, most of the limitations of this claim have been noted in the rejection of claim 1 above. In addition, Chambers IV discloses the claimed limitations of "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49).

As per claim 3, most of the limitations of this claim have been noted in the rejection of claim above. In addition, Chambers IV discloses the claimed limitations of "a segmented library, each segment of the library containing at least one code string" (See Chambers IV Figure 7) wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49).

As per claims 4-6, most of the limitations of these claims have been noted in the rejection of claim 1 above. In addition, Chambers discloses the claimed limitations of code strings are positioned in a history cache as a history buffer (Figure 7), instruction to retrieve the code string (See Chambers IV Col. 10, line 50-Col. Col. 12, line 51).

As per claim 7, most of the limitations of this claim have been noted in the rejection of claim 1 above. In addition, Middleton discloses the claimed limitations of "a

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decompression engine operable, for at least one look-up string, to retrieve a code string identified by the index in the look-up string and to perform operation on or using the retrieved code string according to the instruction in the look-up string" through a decompression method using an expansion technique (See Middleton Title, page 7).

As per claims 8-13, most of the limitations of these claims have been noted in the rejection of claim 7 above. In addition, Chambers discloses "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49); "a segmented library, each segment of the library containing at least one code string" (See Chambers IV Figure 7); an output memory; writing code strings to the memory; altering code strings (See Chambers IV Figures 1-3, Col. 4, lines 26-41).

As per claims 14-15, most of the limitations of these claims have been noted in the rejection of claim 7 above. In addition, Chambers discloses code stings comprise thirty-two bits and look-up string includes no more than eight bits (See Chambers IV Figure 7).

As per claim 16, most of the limitations of this claim have been noted in the rejection of claim 7 above. In addition, Middleton discloses the claimed features of "a first memory location", "a second memory location", and "a processor" through the

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computers connected in the Internet environment wherein the compression and decompression method is being implemented (See Middleton Abstract).

As per claims 17-26, most of the limitations of these claims have been noted in the rejection of claim 16 above. In addition, Chambers discloses "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49); a processor cache as a buffer (Figure 7); a segmented library (Figure 7); code strings are positioned in a history cache as a history buffer (Figure 7); instruction to retrieve the code string (See Chambers IV Col. 10, line 50-Col. Col. 12, line 51); retrieve a code string identified by the index in the look-up string and to perform operation on or using the retrieved code string according to the instruction in the look-up string through a decompression method using an expansion technique (See Middleton Title, page 7); writing code strings to the memory; altering code strings (See Chambers IV Figures 1-3, Col. 4, lines 26-41); first memory location; second memory location; output memory location (See Chambers Figure 1).

As per claim 27, Middleton discloses the claimed limitations of "a method for decompressing a data structure having a plurality of look-up strings and a plurality of code strings" through a decompression method using an expansion technique (See Middleton Title, page 7). In particular, Middleton discloses reading a look-up string;

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retrieving a code string identified by the look-up string; and performing on the retrieved code string an operation identified by the look-up string through a browser wherein as control codes that are retrieved (See Middleton Figure 1, component 12; top of page 11) and a plurality of look-up strings are read (See Middleton Figure 1, component 10; bottom of page 10; page 6).

As per claims 28-40, most of the limitations of these claims have been noted in the rejection of claim 27 above. In addition, Chambers discloses "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49); a processor cache as a buffer (Figure 7); a segmented library (Figure 7); code strings are positioned in a history cache as a history buffer (Figure 7); instruction to retrieve the code string (See Chambers IV Col. 10, line 50-Col. Col. 12, line 51); retrieve a code string identified by the index in the look-up string and to perform operation on or using the retrieved code string according to the instruction in the look-up string through a decompression method using an expansion technique (See Middleton Title, page 7); writing code strings to the memory; altering code strings (See Chambers IV Figures 1-3, Col. 4, lines 26-41); first memory location; second memory location; output memory location (See Chambers Figure 1).

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As per claim 41, all the limitations of this claim have been noted in the rejection of claim 27. It is therefore rejected as set forth above.

As per claims 42-53, most of the limitations of these claims have been noted in the rejection of claim 41 above. In addition, Chambers discloses "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49); a processor cache as a buffer (Figure 7); a segmented library (Figure 7); code strings are positioned in a history cache as a history buffer (Figure 7); instruction to retrieve the code string (See Chambers IV Col. 10, line 50-Col. Col. 12, line 51); retrieve a code string identified by the index in the look-up string and to perform operation on or using the retrieved code string according to the instruction in the look-up string through a decompression method using an expansion technique (See Middleton Title, page 7); writing code strings to the memory; altering code strings (See Chambers IV Figures 1-3, Col. 4, lines 26-41); first memory location; second memory location; output memory location (See Chambers Figure 1).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frantz Coby whose telephone number is 703 305-4006. The examiner can normally be reached on Monday - Friday from 10:30AM-10:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 703 308 1436. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305 3900.

Frantz Goby
Primary Examiner
Art Unit 2171

October 29, 2003